



National Science Foundation

4201 Wilson Boulevard
Arlington, Virginia 22230

Title: Division of Computing and Communication Foundations (CCF)
Directorate of Computer and Information Science and
Engineering (CISE)
Employment Opportunity - Program Director

Date: March 28, 2006

Dear Colleague:

The National Science Foundation's Directorate for Computer and Information Science and Engineering (CISE), Division of Computing and Communication Foundations (CCF) announces a nationwide search to fill a Program Director position in the Emerging Models and Technologies for Computation (EMT) Cluster at the National Science Foundation (NSF). The closing date is May 8, 2006.

NSF Program Directors bear the primary responsibility for carrying out the Agency's overall mission: To support innovative and merit-reviewed activities in basic research and education that contribute to the nation's technical strength, security, and welfare. To discharge this responsibility requires not only knowledge in the appropriate disciplines, but also a commitment to high standards, a considerable breadth of interest and receptivity to new ideas, a strong sense of fairness, good judgment, and a high degree of personal integrity.

Qualification requirements include a Ph.D. or equivalent professional experience in computer science, computer engineering, communication, information science and computational science or allied disciplines, plus six or more years of successful research, research administration and/or substantial managerial experience in academe, industry, or government. Also desirable is knowledge of the general scientific community, skill in written communication and preparation of technical reports, an ability to communicate orally, and several years of successful independent research of the kind normally expected of the academic rank of associate professor or higher. All appointees are expected to function effectively both within specific programs, as well as in a team mode, contributing to and coordinating with organizations in the Directorate, across the Foundation, and with other Federal and State government agencies and private-sector organizations. Computer research and education areas supported by the Division include research and education activities that explore the foundations of computing and communication such as, computing and communication theory, algorithms for computer and computational sciences, and architecture and design of computers and software.

The Emerging Models and Technologies for Computation Cluster (EMT) (http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=13391&org=CCF&from=home) seeks to advance the fundamental capabilities of computer and information sciences and engineering by capitalizing on advances and insights from areas such as biological systems, quantum phenomena, nanoscale science and engineering, and other novel computing concepts. To bring fundamental changes to software, hardware and architectural design aspects of future computing models, collaborations among computer scientists, engineers, mathematicians, biologists and other disciplinary scientists are imperative. Projects move beyond evolutionary technological advances to innovations that enable fundamentally different ways of computing and communicating. The EMT cluster supports cross- and inter-disciplinary research and education projects that explore ideas, theory and experiments which go beyond conventional wisdom and venture into a range of uncharted territories in order to advance computing capabilities, and/or that produce innovative curricula or educational materials to help advance the training of new experts in emerging computing models and technologies.

Program Director positions recruited under this announcement may be filled under the following appointment options:

- Visiting Scientist Appointment. Appointment to this position will be made under the Excepted Authority of the NSF Act. A Visiting Scientist is on non-paid leave status from their home institution and appointed to NSF's payroll as a Federal employee. NSF withholds Social Security taxes and pays the home institution's contributions to maintain retirement and fringe benefits (i.e. health benefits and life insurance), either directly to the home institution or to the carrier. Appointments are usually made for up to one year and may be extended for an additional year by mutual agreement.
- Intergovernmental Personnel Act (IPA) Assignment. Individuals eligible for an IPA assignment with a Federal agency include employees of State and local government agencies or institutions of higher education, Indian tribal governments, and other eligible organizations in instances where such assignments would be of mutual benefit to the organizations involved. Initial assignments under IPA provisions may be made for a period up to two years, with a possible extension for up to an additional two-year period. The individual remains an employee of the home institution and NSF provides funding toward the assignee's salary and benefits. Initial IPA Assignments are made for a one-year period and may be extended by mutual agreement.
- Temporary Excepted Service Appointment. Appointment to this position will be made under the Excepted Authority of the NSF Act. Candidates who do not have civil service status or reinstatement eligibility will not obtain civil service status if selected. Candidates currently in the competitive service will be required to waive competitive civil service rights if selected. Usual civil service benefits (retirement, health benefits, life insurance) are applicable for appointments of more than one year. Temporary appointment may not exceed three years.

For additional information on NSF's rotational programs, please see "Programs for Scientists, Engineers, and Educators" on the NSF website at http://www.nsf.gov/about/career_opps/.

Questions concerning the Program Director position should be directed to:

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